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# NOTICE OF ALLOWANCE AND FEE(S) DUE

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P.O. BOX 3188 WEST PALM BEACH, FL 33402-3188 EXAMINER

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ART UNIT PAPER NUMBER

1794

DATE MAILED: 03/18/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/518,455	07/11/2005	Rolf Pfeifer	3926.122	7854

TITLE OF INVENTION: POLYVINYL BUTYRAL GRANULAR MATERIAL FOR 3-D BINDER PRINTING, PRODUCTION METHOD AND USES THEREFOR

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	06/18/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

## Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notificat	ed below or directed oth	ng the Patent, advance on nerwise in Block 1, by (a	rders and notification  a) specifying a new co	of m orres	naintenance fees v pondence address;	vill be and/or	mailed to the current (b) indicating a sepa	correspondence address as trate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Fee(	s) Transmittal. Th	is certif	icate cannot be used f	r domestic mailings of the or any other accompanying nt or formal drawing, must
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								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR	R ATTORNEY DOCKET N		RNEY DOCKET NO.	CONFIRMATION NO.
10/518,455	07/11/2005		Rolf Pfeifer				3926.122	7854
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nonprovisional	NO	\$1440	\$300		\$0		\$1740	06/18/2008
EXAM	INER	ART UNIT	CLASS-SUBCLASS	ASS				
LE, He	OA T	1794	428-403000					
<ol> <li>Change of correspondence address or indication of "Fee Address" (3' CFR 1.363).</li> <li>Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.</li> <li>"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.</li> </ol>			or agents OR, alter  (2) the name of a seregistered attorney  2 registered patent	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.				
recordation as set fortl (A) NAME OF ASSIC	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	ified below, no assignee oletion of this form is NO	data will appear on the Tasubstitute for filing (B) RESIDENCE: (C	he pa g an a	ntent. If an assign assignment. and STATE OR C	COUNT	TRY)	ocument has been filed for
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):	Ч	Individual 🖵 Co	orporati	on or other private gro	oup entity 🔲 Government
4a. The following fee(s) are submitted:  ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			<ul> <li>4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)</li> <li>A check is enclosed.</li> <li>Payment by credit card. Form PTO-2038 is attached.</li> <li>The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).</li> </ul>					
5. Change in Entity Stat	tus (from status indicated s SMALL ENTITY statu		☐ b. Applicant is no	long	ger claiming SMAl	LL EN	ГІТҮ status. See 37 СІ	FR 1.27(g)(2).
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if requeecords of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	nan th	ne applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
Authorized Signature					Date			
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P.O. BOX 3188			ART UNIT	PAPER NUMBER
WEST PALM BEACH, FL 33402-3188		1794		
		DATE MAILED: 03/18/2008		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 386 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 386 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)
	10/518,455	   PFEIFER ET AL.
Notice of Allowability	Examiner	Art Unit
	H. T. Le	1794
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the co (OR REMAINS) CLOSED in this apport or other appropriate communication IGHTS. This application is subject to	orrespondence address blication. If not included will be mailed in due course. THIS
1. 🔀 This communication is responsive to amendment filed Dec	<u>cember 14, 2007</u> .	
2. ☑ The allowed claim(s) is/are <u>19-22</u> .		
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority until a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> <li>2.  Certified copies of the priority documents have</li> <li>3.  Copies of the certified copies of the priority do</li> </ul>	e been received. e been received in Application No	
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4. A SUBSTITUTE OATH OR DECLARATION must be subminsformal PATENT APPLICATION (PTO-152) which give 5. CORRECTED DRAWINGS (as "replacement sheets") must	MENT of this application.  Initted. Note the attached EXAMINER as reason(s) why the oath or declara	S AMENDMENT or NOTICE OF
(a) ☐ including changes required by the Notice of Draftspers	son's Patent Drawing Review(PTO-	948) attached
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date		
<ul> <li>(b) including changes required by the attached Examiner'         Paper No./Mail Date     </li> <li>Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the state of the sheet.</li> </ul>	.84(c)) should be written on the drawii	ngs in the front (not the back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5.	• •
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Dat	
3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date	7. 🛛 Examiner's Amendr	nent/Comment
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance

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## **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided

by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be

submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview

with Applicant's Representative, Ms. Yonghong Chen, on March 12, 2008.

3. The application has been amended as follows:

In the Specification:

Paragraph [0010] has been rewritten as follows:

-- [0010] The object is achieved firstly by a granulated material composed of

particles as a substrate provided with a surface layer. --

Paragraph [0021] has been rewritten as follows:

-- [0021] The object is also achieved by a process for producing a granulated

material. --

In the Claims:

Claim 22, line 2, "higher alcohols" has been changed to -- glycols --.

End of Amendment.

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### **REASONS FOR ALLOWANCE**

- 4. The following is an examiner's statement of reasons for allowance: None of the prior art references of record, singly or combined, teaches or suggests a process of printing comprising a step of: (1) forming a layer of granulated material wherein the surface of the granulate consists of polyvinyl butyral and has a nonpolar outer surface and (2) wetting the granulated layer with a binder liquid that is capable of dissolving the nonpolar outer surface of the granulate. None of McCrary (US 7,270,879), Kondo (US 6,329,061) or EP'745 (EP 0 897 745) teaches the formation of a layer of granulate whose outer surface is nonpolar and/or the step of providing a binder liquid that dissolves the outer surface of the granulate. Bredt (US 5,902,441) does not teach polyvinyl butyral as the granulated material and the process of dissolving the outer surface of the granulated material.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. T. Le whose telephone number is 571-272-1511. The examiner can normally be reached on 9:30 a.m. to 6:00 p.m., Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1794

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

<u>/H. Thi Le/</u>
H. (Holly) T. Le
Primary Examiner
Art Unit 1794

March 12, 2008